PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 101290-1 WO	FOR FURTHER ACTION	See item 4 below
International application No. PCT/SE2004/001659	International filing date (day/month/year) 15 November 2004 (15.11.2004)	Priority date (day/month/year) 19 November 2003 (19.11.2003)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant ASTRAZENECA AB		

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1.	This international preliminary re International Searching Authorit		I) is issued by the International Bureau on behalf of the
. 2.	This REPORT consists of a total	of 6 sheets, including this co	ver sheet.
	In the attached sheets, any refere to the international preliminary i		the International Searching Authority should be read as a reference er I) instead.
3.	This report contains indications	relating to the following items	3:
	Box No. I	Basis of the report	
	Box No. II	Priority	
-	Box No. III	Non-establishment of opin applicability	ion with regard to novelty, inventive step and industrial
	Box No. IV	Lack of unity of invention	
	Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement
	Box No. VI	Certain documents cited	•
	Box No. VII	Certain defects in the inter	national application
	Box No. VIII	Certain observations on the	e international application
4.	The International Bureau will conot, except where the applicant date (Rule 44bis .2).	ommunicate this report to designates an express request unde	gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but er Article 23(2), before the expiration of 30 months from the priority
•			Date of issuance of this report 22 May 2006 (22.05.2006)
	The International Bure	an of WIPO	Authorized officer

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PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:
ASTRAZENECA
Global Intellectual Property
151 85 Södertälje

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1) 0 8 -03- 2005 Date of mailing (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below 101290-1 WO Priority date (day/month/year) International filing date (day/month/year) International application No. 19.11.2003 15.11.2004 PCT/SE2004/001659 International Patent Classification (IPC) or both national classification and IPC CO7D 453/02, 453/06, 487/08, A61K 31/439, 31/407, A61P 25/00 Applicant AstraZeneca AB et al

1.	This	opinion contain	s indications relating to the following items:
	\boxtimes	Box No. I	Basis of the opinion
•	\Box	Box No. II	Priority
	\boxtimes	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
		Box No. IV	Lack of unity of invention
	\boxtimes	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	\boxtimes	Box No. VI	Certain documents cited
		Box No. VII	Certain defects in the international application
		Box No. VIII	Certain observations on the international application
2.	If a control Intervented Authorists Write If the IPE of F	mational Prelim nority other than ten opinions of is opinion is, as A a written repl orm PCT/ISA/2	mational preliminary examination is made, this opinion will be considered to be a written opinion of the inary Examining Authority ("IPEA") except that this does not apply where the applicant chooses and this one to be IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that this International Searching Authority will not be so considered. It provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the y together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing 220 or before the expiration of 22 months from the priority date, whichever expires later.
	For	further opinion:	s, see Form PCT/ISA/220.
3.	For	further details,	see notes to Form PCT/ISA/220.
		•	

Authorized officer

Solveig Gustavsson/EÖ

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Form PCT/ISA/237 (cover sheet) (January 2004)

Name and mailing address of the ISA/SE Patent- och registreringsverket

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Box 5055

S-102 42 STOCKHOLM

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SE2004/001659

Box No. I	Basis of this opinion	
which it w	vas filed, unless otherwise indica	has been established on the basis of the international application in the language in sted under this item. on the basis of a translation from the original language into the following language, of a translation furnished for the purposes of international search (under Rules 12.3)
claimed is	ard to any nucleotide and/or am nvention, this opinion has been of f material	ino acid sequence disclosed in the international application and necessary to the established on the basis of:
a. type o	a sequence listing	
	table(s) related to the sequen	ce listing
b. format	of material in written format	
	in computer readable form	•
c. time	of filing/furnishing contained in the internationa	al application as filed.
-	•	national application in computer readable form.
	J	is Authority for the purposes of search.
3.		ore than one version or copy of a sequence listing and/or table relating thereto has been a statements that the information in the subsequent or additional copies is identical to or does not go beyond the application as filed, as appropriate, were furnished.
4. Addition	nal comments:	
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SE2004/001659

Box No. III No	n-establishment of opinion with regard to novelty, inventive step and industrial applicability
The questions whe	other the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be able have not been examined in respect of:
the ent	ire international application
Claims	Nos. 10-14, 16-20
relate t	d international application, or the said claims Nos. 10-14, 16-20 to the following subject matter which does not require an international preliminary examination (specify): Rule 67.1.(iv).: Methods for treatment of the human
or anima methods	al body by surgery or therapy, as well as diagnostic
• .	
the de are so	scription, claims or drawings (indicate particular elements below) or said claims Nos. unclear that no meaningful opinion could be formed (specify):
1 1 1	The claims, or said claims Nos. are so inadequately supported
1	by the description that no meaningful opinion could be formed.
1 📖	no international search report has been established for said claims Nos.
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:
	the written form has not been furnished
	does not comply with the standard the computer readable form has not been furnished does not comply with the standard
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in the Annex C-bis of the Administrative Instructions.
	See Supplemental Box for further details.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/SE2004/001659

YES
NO
YES
NO
YES
NO

2. Citations and explanations:

- D1) EP 1219622 A2
- D2) WO 0215662 A2

D1 and D2 show compounds that are structurally different from the compounds of the present application, even if they have the same use.

Thus, the cited documents represent the general state of the art.

The invention defined in claims 1-9, 15 or 21-22 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed compounds as alpha 7-nicotinic acetylcholine receptor for treatment of CNS-related diseases. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-9, 15 and 21-22 is novel and is considered to involve an inventive step. The invention is industrially applicable.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SE2004/001659

Box No. VI Certain documents cited

1. Certain published documents (Rules 43bis.1 and 70.10)

Application No.
Patent No.

Publication date (day/month/year)

Filing date
(day/month/year)

Priority date (valid claim)
(day/month/year)

WO 2004/043960

27.05.2004

10.11.2003

11.11.2002

2. Non-written disclosures (Rules 43bis.1 and 70.9)

Kind of non-written disclosure

Date of non-written disclosure (day/month/year)

Date of written disclosure referring to non-written disclosure (day/month/year)